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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,652	06/26/2001	Doo Hyun Ko	8733.476.00	9120

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EXAMINER

CHOWDHURY, TARIFUR RASHID

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 07/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/888,652	KO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tarifur R Chowdhury	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 23 April 2003 .

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-26 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 7-13 and 22-26 is/are allowed.

6) Claim(s) 1,3-6,14-18 and 21 is/are rejected.

7) Claim(s) 2,19 and 20 is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_ .
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

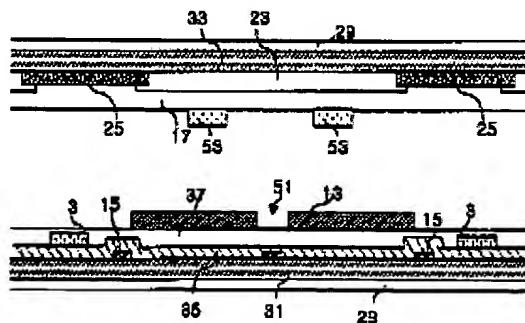
**1. Claims 1, 3-6, 14-18 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al., (Kim), USPAT 6,462,798.**

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

**1. Kim discloses and shows in Fig. 7B, a multi-domain liquid crystal display device (abstract), comprising:**

- first and second substrates (29);

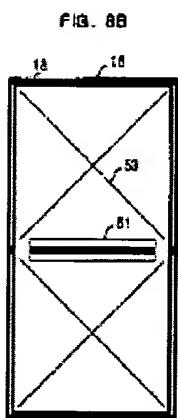


- a pixel electrode (13) formed on the second substrate;

- a common auxiliary electrode (15) (applicant's first side electrode) formed along a periphery of the pixel electrode (13);
- a second side electrode (not indicated with a numeral) formed diagonally on the pixel electrode (13); and
- first and second dielectric frames (53) formed on the first substrate.

Accordingly, claim 1 is anticipated.

As to claim 3, Kim shows in Fig. 7B, that an insulating film (35) formed on the first and second side electrodes, the pixel electrode (13) being formed on the insulating film (35).



As to claim 4, Kim shows in Fig. 7B that the first and second dielectric frames (53) are formed on the first substrate to correspond to sides of the second side electrode.

As to claim 5, Kim also shows in Fig. 8B that the first and second dielectric frames (53) are formed in the same direction as the second side electrode.

As to claim 6, Kim also shows in Fig. 7B of that the pixel electrode (13) has open regions above the second side electrode.

As to claim 14, Kim also discloses (col. 2, lines 12-18) that the multi-domain liquid crystal display also comprising:

- data lines on the first substrate;
- gate lines on the first substrate and perpendicular the data lines, the data and gate lines defining a pixel region having at least two liquid crystal domains in the pixel region.

As to claim 15, Kim shows in Fig. 7B that the pixel electrode (13) has opening (51) (applicant's slits) in a region corresponding to the second side electrode.

As to claim 16, Kim also shows in Fig. 8B that the first side electrode (15) includes parallel first side electrodes that are parallel to the data lines and transverse first side electrodes that cross the pixel region and are perpendicular to the data lines.

As to claim 17, Kim also shows in Fig. 8B that the parallel first side electrodes extend from respective ones of the transverse first side electrodes to respective ones of the at least one dielectric structure (53).

As to claim 18, Kim shows in Fig. 7B that the second side electrode transverses the pixel electrode (13) diagonally.

As to claim 21, Kim shows in Fig. 8B that the first side electrode (15) partially surrounds the pixel electrode (13).

***Allowable Subject Matter***

2. Claims 7-13 and 22-26 are allowed.

3. Claims 2, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:

The prior arts of record do not anticipate nor render obvious to one ordinary skilled in the art a multi-domain liquid crystal display comprising various elements as claimed, more specifically the first side electrode being electrically connected to the second side electrode.

US 2001/0019388 and USPAT 6,462,798 disclose a multi-domain liquid crystal display device wherein the first side electrode and the second side electrode are not electrically connected.

#### ***Response to Arguments***

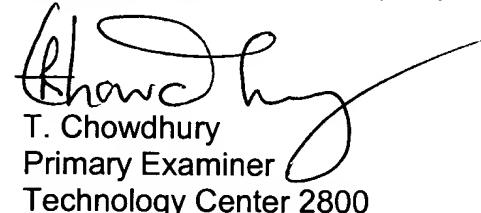
5. Applicant's arguments, see page 2, filed on 04/23/03, with respect to the rejection(s) of claim(s) 1, **3-6, 14-18 and 21** under 35 U.S.C 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of USPAT 6,462,798.

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.



T. Chowdhury  
Primary Examiner  
Technology Center 2800

TRC  
July 1, 2003